

ROAD ANGEL™ Halo



User Guide

DISCLAIMER & COPYRIGHT

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Under no circumstances should ROAD ANGEL products be operated by the driver whilst the vehicle is in motion.

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UV/solar reflective screens block GPS signals from entering the vehicle and may affect the operation of your ROAD ANGEL Halo. Heated screens can also affect GPS signal strength.

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WARRANTY & REGISTRATION

Your ROAD ANGEL Halo is guaranteed for one year from the date of purchase from all manufacturing defects that occur with normal use. If your unit fails to perform as specified in this user guide, please visit:

www.roadangelgroup.com or call 01327 855586.

Your device is supplied with a 12 month warranty starting from the date of purchase. To activate this please log on and register your unit for free at www.roadangelgroup.com.

Activation of the warranty and/or continued use of this product by you, will constitute full acceptance of the Disclaimer and Copyright notice and the terms there under. If this product is installed in a vehicle that is used by people other than yourself, you accept and agree without reservation that it is your obligation to notify other vehicle users as to the safe working usage of this product.

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ENVIRONMENTAL & COMPLIANCE

Product Disposal Instructions

The symbol shown here and on the product means that it is classed as Electrical or Electronic Equipment and should not be disposed with other household or commercial waste at the end of its working life.



The Waste of Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC) has been put in place to recycle products using best available recovery and recycling techniques to minimise the impact on the environment, treat any hazardous substances and avoid the increasing landfill.

For more information please contact your local authority or the retailer where the product was purchased.

This product has been designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) and has been designed and type-tested to comply with EU requirements and carries a CE mark.



SAFETY PRECAUTIONS

- Do not disassemble or modify this product
- Only use this product with the power cables supplied
- Avoid small objects and liquids from entering the product
- Do not leave this product in direct sunlight for prolonged periods of time or exposed to excessively high temperatures
- Ensure that this product does not obstruct your view of the road

THANK YOU FOR CHOOSING ROAD ANGEL HALO

With 'crash for cash' scams on the increase and payouts worth £400m a year, it's never been more important to record your journeys on the road and be prepared for any incidents that may occur along the way. Crash for cash claims add on average £14 to each of our premiums, but if you're unlucky enough to be personally victimised, not only is your health at risk but your insurance premium could rise by up to 30%.

ROAD ANGEL Halo is specifically designed to fight back against fraudulent claims as a simple, discreet accident camera suitable for use in any vehicle. Halo continuously records and saves footage as you drive, and in the event of an accident uses G-Force sensors to capture the footage in an event file. This footage is then saved separately and can later be used as evidence in a claim.

With built-in GPS technology and Google Maps, Halo is able to pin-point where your vehicle was and the GPS speed it was travelling at the time of an accident*. The optional sound recording feature also means, if switched off, you can retain your privacy as you drive. Both cameras allow for clear, reliable footage with viewing angles of 150°, a HD resolution of 1280p x 720p in the forward facing camera and 640p x 480p in the rear.

* UV/solar reflective screens block GPS signals from entering the vehicle and may affect the operation of your ROAD ANGEL Halo. Heated screens can also affect GPS signal strength.

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HALO FEATURES

HD resolution, high quality video recording

- Front camera includes CMOS imaging sensor allowing high quality HD (1280 x 720) recording at 20 fps
- Rear camera allows (640 x 480) recording at 10fps

Wide angle

- 150° horizontal wide angle camera lens

Built-in high sensitivity microphone

- Voice recording along with video recording
- Optional privacy button

Multiple recording modes

- Real time recording, Event recording, Manual recording, Motion sensor recording (enabled when in Parking mode, Parking mode only available when used with Halo hardwire kit)

Built-in 3 axis acceleration sensor

- Detects external impact using 3 axis sensor and activates Event recording

HALO FEATURES

Built-in back-up battery

- In the event of an incident, the Road Angel Halo will use its small internal battery to continue the event file recording*

Built-in GPS

- Video recording with accurate location, date and time

Instructive User Interface

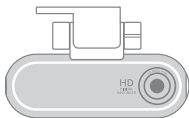
- Provides LED indications, sound effects, and voice prompts

PC Application

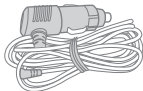
- Allowing product configuration and video playback

* Please note: If power is removed the length of the clip recorded will be determined by battery charge at the time of event.

PACKAGE CONTENTS



Halo Front Camera



In-Car Power Cable



16GB Micro SD Card



USB Micro SD Card Reader



USB Stick Containing
User Manual and Halo
Player Software



Quick-Start Guide



Rear Camera
(With Connection Lead)



10 x Adhesive Wire Clips



Product registration

Preparing for use

Anatomy of Halo

Camera installation

BEFORE YOU START

Product Registration

Before operating Halo please visit our website at www.roadangelgroup.com to register your product and activate your 12 month warranty.

Preparing for use

Remember to check the camera position and angle before operation.



Video quality may degrade with severe backlight, at night or when you enter dark environments such as tunnels, car parks etc.



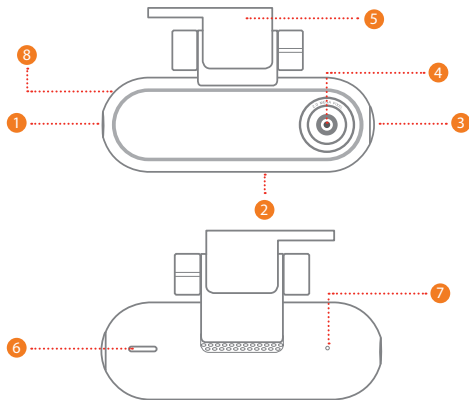
Excessive window tinting may affect the quality and colour balance of video.



Ensure that your windscreen is clean (inside and out) for the best possible video quality.



Anatomy of Halo



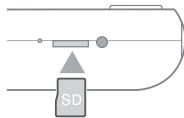
1. Power connector
2. Micro SD card slot
3. Control button
4. Camera lens
5. Mounting bracket
6. LED indicator
7. Microphone
8. Rear camera port

BEFORE YOU START

Camera Installation

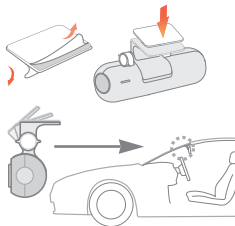
1. Inserting the memory card

Insert the supplied Micro SD card into the slot as per the illustration on the right, being careful to insert it the correct way around. Inserting the Micro SD card will automatically format the card for use with Halo.



2. Installing Halo in your vehicle

It is recommended that Halo is mounted in an elevated position in your vehicle, with a location between the rear view mirror and the windscreen being particularly effective. Halo is affixed to the windscreen using the sticky pad supplied. Simply remove the backing material and apply pressure to ensure a secure fix.



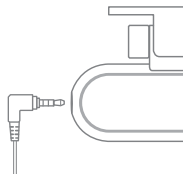
3. Powering Halo

Using the power lead supplied, plug Halo into your vehicle's cigarette lighter socket. A red LED will illuminate and an audible alarm will sound. The red LED will then change to blue, signifying that Halo has commenced recording.

4. Camera angle and cable management

Pay particular attention to the angle of the camera to ensure that it has an unobstructed line of sight and is angled correctly to cover the widest possible viewing area.

Use the self-adhesive wire retention clips supplied to channel any visible cables away from your field of view and to maintain a tidy interior. Alternatively cables can be hidden in the vehicle by a professional installer.





- Start-up sequence
- Micro SD card
- Real time recording
- Manual recording
- Event recording
- Parking mode recording
- Micro SD card removal
- Power removal

Start-Up Sequence

Apply power to Halo, a red LED will illuminate and an audible alarm will sound to denote that Halo is powering up. The red LED will then change to blue, signifying that Halo has commenced Real time Recording mode.



RED: Powering Up



BLUE: Recording

Micro SD Card

If no SD card is detected, Halo will alternate between RED and BLUE LED illumination. A voice alert will instruct you to insert a Micro SD Card.

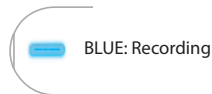


ALTERNATING BETWEEN RED and BLUE LEDs: No Micro SD Card in device

USING HALO

Real time recording:

Halo begins real time recording automatically on power up, this is indicated with a BLUE LED.



During real time recording:

Pressing the Control Button once turns the microphone on/off.

Pressing the Control Button twice activates Manual Recording mode.

Pressing and holding the Control Button formats the Micro SD card.

In Real time recording mode Halo will continue to save individual files (each 60 seconds in length) and starts to overwrite the oldest files when the folder on the SD card reaches the set storage allotment.

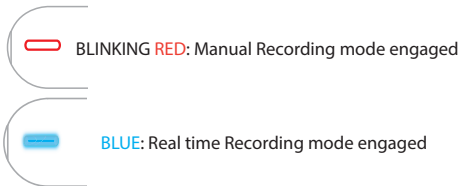
Start Manual Recording

Pressing the Control Button twice when in Real time Recording mode will activate Manual Recording mode.

Manual Recording will save a 30 second video clip - combining 15 seconds from before mode activation with 15 seconds of footage from after mode activation.

When in Manual Recording mode Halo's LED indicator will flash **RED**.

Halo will automatically revert back to Real time Recording after 15 seconds, signified by the LED returning to constant a **BLUE**.



USING HALO

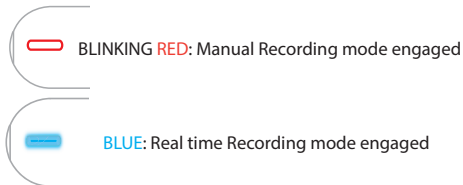
Start Event Recording

If Halo's shock sensor detects impact during Real time Recording or Parking mode, Event Recording will automatically engage.

Event Recording will save a 30 second video clip - combining 15 seconds from before mode activation with 15 seconds of footage from after mode activation.

When in Event Recording mode Halo's LED indicator will flash **RED**.

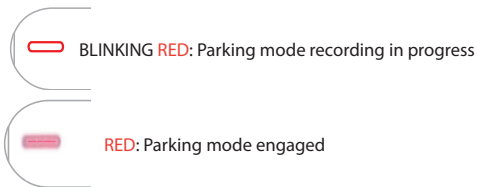
Halo will automatically revert back to Real time Recording after 15 seconds, signified by the LED returning to constant a **BLUE**.



When using Halo's optional hardwire kit, Halo will automatically recognise when the car's ignition has been switched off and will enter Parking mode after a short period of time.

While in Parking mode, Halo will constantly monitor for either movement in the camera's viewing area, or for impacts via the shock sensor.

When camera movement is detected, Parking mode will save a 30 second video clip - combining 15 seconds from before mode activation with 15 seconds of footage from after mode activation. Halo's LED indicator will flash **RED** during Parking mode recording, thereafter Halo will automatically revert back to its standby Parking mode condition, signified by the LED turning to a constant **RED**.



USING HALO

End Parking Mode Recording

Halo will automatically revert back to Real time Recording when the vehicle's ignition is switched on.

Removing the Micro SD card during operation

Should the Micro SD card be removed at any time during normal operation, Halo will reset and then wait for another Micro SD to be inserted. The device may require a reboot in order to register the new card.

ATTENTION:

Removing the Micro SD card during recording may permanently damage the card.

Removing power during operation

If power is removed while Halo is in Real time Recording mode or Parking Mode, recording will be discontinued and Halo will power down.



USING HALO

Removing power during operation (cont)

If power is removed while Halo is in Event or Manual mode, recording of the incident will continue until the end of the 15 second period before your device automatically powers down*.

* Please note: If power is removed the length of the clip recorded will be determined by battery charge at the time of event.



Installing Halo Player
Halo Player operation
Halo device setup

Installing Halo Player

Software for configuration and video playback (known as “Halo Player”) is included on the USB stick supplied with Halo.

Insert the USB stick into your computer and double click the “Halo Player” file to install the software in your preferred location. Please be aware Halo Player also installs a third-party decoder called FFDshow.

ATTENTION:

Before installation please check that you are in possession of the latest software version by visiting www.roadangelgroup.com.

The Road Angel Halo Player is compatible and supported on the following operating systems:

Windows 7 (32/64 bit)

Windows 8 (32/64 bit)

Windows 8.1 (32/64bit)

USING HALO PLAYER

Halo Player Operation

The screenshot shows the ROAD ANGEL Halo Player interface. The main window displays a front-facing camera view of a road. The top bar shows the file name '141216_083141_11.avi' and playback controls. The bottom bar contains playback buttons: PRE, PLAY, STOP, NEXT, SEC, SEC, FPS, and OPEN. A Google Map window is visible on the right side of the interface.

Numbered callouts (1-15) point to various interface elements:

- 1: Main video window
- 2: Top status bar
- 3: Playback controls (PRE, PLAY, STOP, NEXT, SEC, SEC, FPS, OPEN)
- 4: Rear view window
- 5: File list
- 6: Playback progress bar
- 7: Playback speed controls
- 8: Google Map window
- 9: Map controls
- 10: Map zoom controls
- 11: Map location pin
- 12: Playback progress bar
- 13: Playback speed controls
- 14: Playback controls (PRE, PLAY, STOP, NEXT, SEC, SEC, FPS, OPEN)
- 15: Playback progress bar

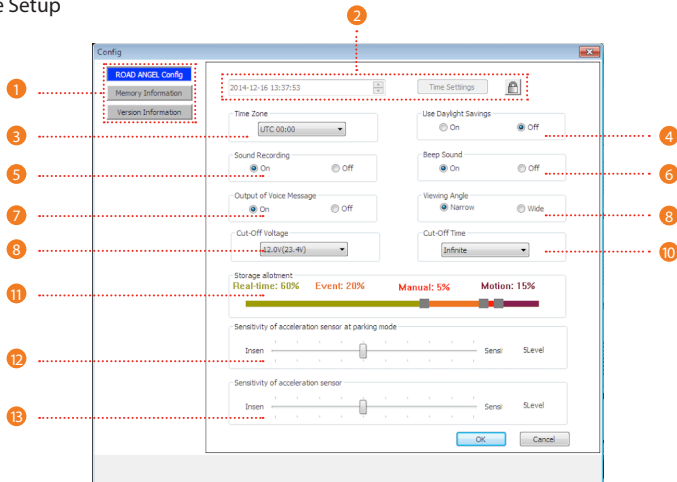
| File Name | Date | Size |
|----------------------|----------|--------|
| 141216_080829_11.avi | 14.12.16 | 47,101 |
| 141216_080930_11.avi | 14.12.16 | 45,734 |
| 141216_081030_11.avi | 14.12.16 | 45,964 |
| 141216_081130_11.avi | 14.12.16 | 47,166 |
| 141216_081231_11.avi | 14.12.16 | 45,939 |
| 141216_081331_11.avi | 14.12.16 | 47,204 |
| 141216_083141_11.avi | 14.12.16 | 47,104 |
| 141216_081547_11.avi | 14.12.16 | 45,572 |
| 141216_081648_11.avi | 14.12.16 | 45,522 |
| 141216_081749_11.avi | 14.12.16 | 46,214 |
| 141216_081849_11.avi | 14.12.16 | 46,469 |

Halo Player Operation

| | | |
|-----|------------------------|---|
| 1. | Video Playback Screens | Front and rear video footage is played back in these areas. |
| 2. | On-Board Display | Displays detailed real time information about the journey. |
| 3. | G-Sensor Graph | Click here to view realtime G-Sensor information. |
| 4. | Reverse Footage | Inverts video image. |
| 5. | Capture Images | Captures a screenshot of the current video frame. |
| 6. | Setup Options | Opens the camera setup screen - see page 32. |
| 7. | Toggle Footage | Switches video playback between front and rear footage. |
| 8. | Google Map Show/Hide | Shows or hides the Google map window. |
| 9. | View Wide/Small Map | Increases the size of the Google map window. |
| 10. | Video Category Tabs | Filters between all recorded files. |
| 11. | Recorded Video Lists | Displays all recorded videos. |
| 12. | Timeline | Shows duration of clip, allowing you to explore in detail. |
| 13. | Volume | Volume control for audio playback. |
| 14. | Playback Speed | Control the playback speed of the video. |
| 15. | Video Control Bar | Various controls for video playback. |

USING HALO PLAYER

Halo Device Setup



Halo Device Setup

| | | |
|-----|-------------------|--|
| 1. | Tabs | Toggle between configuration, memory info & version info. |
| 2. | Time | Not required when using Halo. |
| 3. | Time Zone | Set the time zone in which you are driving. |
| 4. | Daylight Saving | Turn On/Off daylight saving time. |
| 5. | Sound Recording | Turn On/Off sound recording (can also be controlled from Halo device.) |
| 6. | Beep Sound | Turn On/Off 'beep' alerts generated by Event mode activation. |
| 7. | Voice Messages | Turn On/Off voice alerts. |
| 8. | Viewing Angle | Increase or decrease the camera viewing angle. |
| 9. | Cut-Off Voltage | For use with hardwire kit, select the voltage at which Halo powers down. |
| 10. | Cut-Off Time | For use with hardwire kit, select the cut-off time at which Halo powers down. |
| 11. | Storage Allotment | Set how much memory space is given to each recording mode on the SD card. |
| 12. | G-Sensor Control | Parking mode, control the G-Sensor sensitivity for Event recording activation. |
| 13. | G-Sensor Control | Real time, control the G-Sensor sensitivity for Event recording activation. |



Control button overview

LED guide

Voice / audible alert guide

Control Button Overview

| Mode | Press Button Once | Press Button Twice | Press and Hold Buton |
|------------------------|------------------------|------------------------|----------------------|
| Real time Recording | Turn microphone on/off | Start manual recording | Format SD Card |
| Manual Recording | No action | No action | No action |
| Event mode Recording | No action | No action | No action |
| Parking mode Recording | No action | No action | Format SD Card |

OTHER INFORMATION

LED Guide

| Action | Front Camera | | Rear Camera |
|---------------------------|----------------|--|-------------|
| | Rear LED | Front LED | LED |
| Boot Up | RED ON | OFF | ON |
| Real time Recording | BLUE ON | OFF | ON |
| Manual Recording | RED FLASH | OFF | ON |
| Event Recording | RED FLASH | OFF (Real time recording) BLUE FLASH (0.5 SEC - Parking mode) | ON |
| Parking Mode Standby | RED ON | BLUE FLASH (1 SEC) | ON |
| Parking Mode Recording | RED FLASH | BLUE FLASH (0.5 SEC) | ON |
| No Micro SD Card inserted | RED/BLUE FLASH | OFF | ON |

Voice / Audible Alert Guide

| Mode | Voice Message / Sound Effect | Remark |
|---|--|---------------|
| Boot Up | Long Beep | Sound Effect |
| Start Real time Recording | Short Beep | Sound Effect |
| Real Time Recording Event Mode Activation | Short Beep | Sound Effect |
| Start Parking Mode Recording | "Parking Mode is on" | Voice Message |
| Notify of event while parked | "Video was recorded during parking mode" | Voice Message |
| No Micro SD Card inserted | "Please insert memory card. Not recording" | Voice Message |
| SD Card Format | "Memory card is formatting. Please wait" | Voice Message |
| Before power off | Short Beep | Sound Effect |

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